

Title (en)  
SLIP DETECTION AND MITIGATION FOR AN ELECTRIC DRIVE POWERTRAIN HAVING A HIGH RATIO TRACTION DRIVE TRANSMISSION

Title (de)  
SCHLUPFERKENNUNG UND -MINDERUNG FÜR EINEN ELEKTRISCHEN ANTRIEBSSTRANG MIT EINEM ANTRIEBSGETRIEBE MIT HOHEM ÜBERSETZUNGSVERHÄLTNIS

Title (fr)  
DéTECTION ET ATTÉNUATION DE GLISSEMENT D'UNE TRANSMISSION D'ENTRAÎNEMENT ÉLECTRIQUE AYANT UNE TRANSMISSION À ENTRAÎNEMENT PAR TRACTION À RAPPORT ÉLEVÉ

Publication  
**EP 3627000 A2 20200325 (EN)**

Application  
**EP 19198778 A 20190920**

Priority  
US 201862733872 P 20180920

Abstract (en)  
A method of controlling a continuously variable electric drivetrain (CVED) including a high ratio traction drive transmission and at least one of a first motor-generator and a second motor-generator is disclosed. The method includes the steps of receiving a an output speed, determining a kinematic output speed, and determining a slip state of the high ratio traction drive transmission based on a comparison of the output speed to the kinematic output speed.

IPC 8 full level  
**F16H 13/06** (2006.01)

CPC (source: CN EP US)  
**B60W 10/105** (2013.01 - US); **B60W 10/115** (2013.01 - US); **B60W 30/18072** (2013.01 - CN); **F16H 13/06** (2013.01 - EP); **F16H 59/38** (2013.01 - US); **F16H 3/724** (2013.01 - EP); **F16H 2057/012** (2013.01 - EP); **F16H 2059/465** (2013.01 - EP US); **Y02T 10/62** (2013.01 - EP)

Citation (applicant)  

- US 8152677 B2 20120410 - KNEPPER RICHARD [US], et al
- US 4709589 A 19871201 - KRAUS CHARLES E [US]
- US 4483216 A 19841120 - TAKAHASHI HISAYOSHI [JP], et al
- US 4846008 A 19890711 - KRAUS CHARLES E [US]
- US 5385514 A 19950131 - DAWE DANIEL J [US]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3627000 A2 20200325**; **EP 3627000 A3 20200520**; CN 110936957 A 20200331; CN 110936957 B 20230502; US 11021144 B2 20210601; US 11485346 B2 20221101; US 12017635 B2 20240625; US 2020094808 A1 20200326; US 2021229653 A1 20210729; US 2023014139 A1 20230119

DOCDB simple family (application)  
**EP 19198778 A 20190920**; CN 201910893487 A 20190920; US 201916577305 A 20190920; US 202117233185 A 20210416; US 202217934154 A 20220921